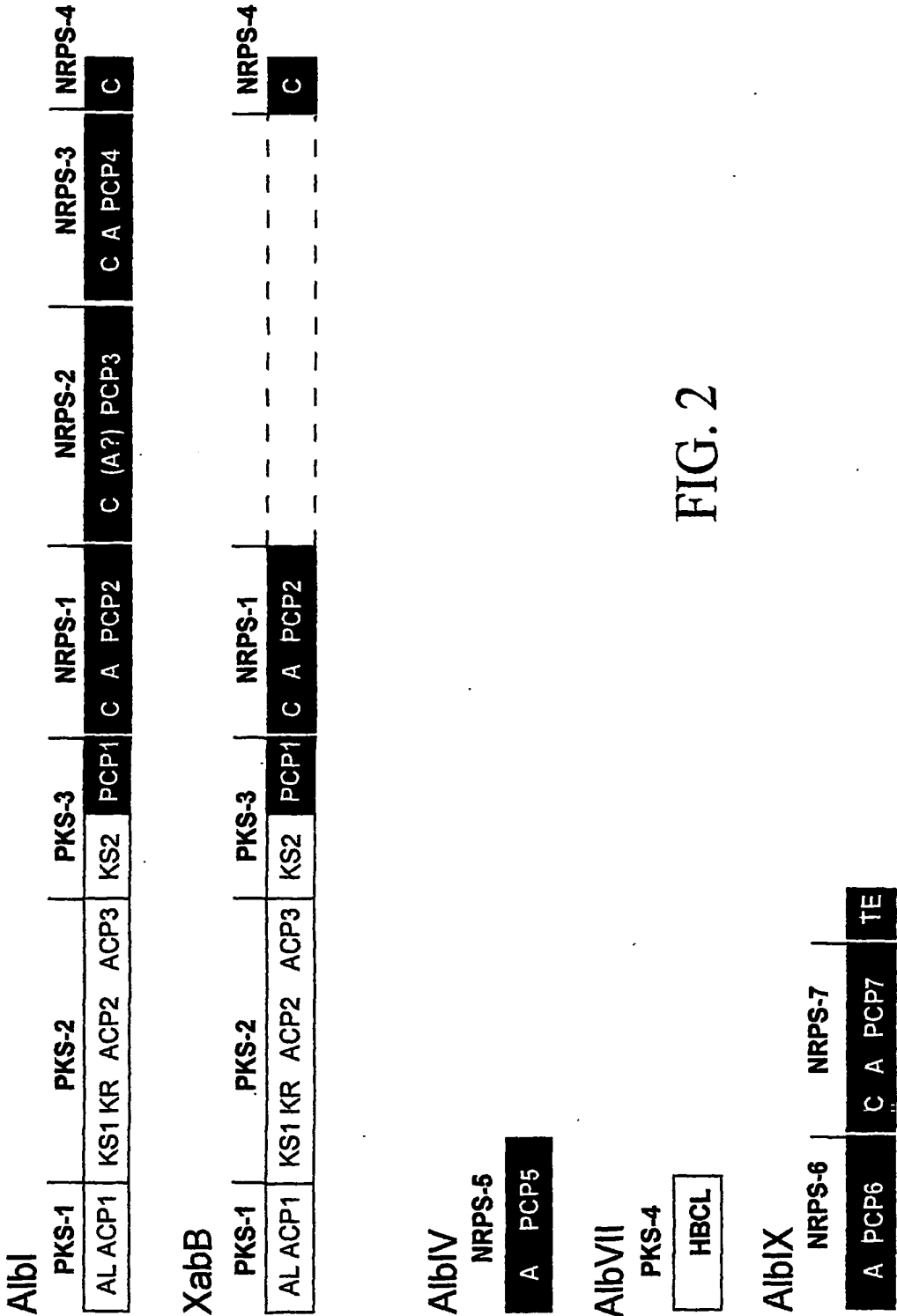


FIG. 1



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Sgl-TcmO	173	FVDLGGARG	234	PRADVFI	263	ALTPGGAVLV
Sgl-TcmN	331	IADLGGGDG	393	TGYDAYLF	423	IGDDDDARLLI
Smy-MdmC	64	VLEIGTFTG	135	GAFDIVFV	159	LVRPGGLVAI
Mxa-SafC	63	TLEVGVTFTG	134	GTFDLAFI	158	LVRPGGLIIL
Ser-EryG	85	VLDVGFGLG	149	ETEDRVTS	178	VLKPGGVLA
Spe-DauK	183	VLDVGGGKG	254	RKADAIL	273	ALEPGGRILI
Sal-DmpM	208	VVDIGGADG	269	GGDLIVL	298	AMPAHARLLV
Shy-RapM	106	VLEVGCGMG	155	VQDAEEL	194	ALRRGGALSH
Sav-AveD	71	VLDVCGGSG	124	GSEDAWA	151	VLRPGGR LAV
Sar-Cmet	158	VLDVACGHG	220	GPYDLSLI	251	ATRPGGRIGI
AlbII	174	VLDVAAGHG	236	SGYDVILL	267	ALNDDGMVIT
		Motif I		Motif II		Motif III

FIG. 3

Sgl-tcmP	84	VVLHLACGLDSRAFRMDVPD109	DVDVPDVIELR	139	EDWLDTVF	150	PALVVAEGLTPYL
Sme-PKS	84	TVLHLGCGLDSRIFRIDPGP109	ELDVPDVISLR	139	RGWIERLP	150	PTMIVAEGVLPYL
Pmu-tcmP	86	VVVLGAGLDARFERLGKQP111	DLDLPEVINIR	141	TDMMKTVS	152	PVLLILEGVLMFF
Mtu-Omt	85	TVVALAEGLOTSEWRLDVAI113	TVDLPPIVDLR	144	YSWMDSDV	155	GVFITAEGLLMYL
Mlo-Hp	84	IVLHLGCGLDTRVFRVDP109	DADYPQVIELR	139	PGWLAIEVP	150	PAMVVAEGLTPYL
Mtu-Hp	101	QVAILASGLDSRAYRLPWPT127	EIDQPKVMEFK	162	ADWPTALQ	178	PTAWLAEGLLIYL
Mtu-Hp2	104	QVVILASGLDSRAWRLPWP129	ELDQPKVLEFK	162	QDWPKALQ	178	PCAWLAEGLVRYL
Mtu-Hp3	98	QVILAAAGLDSRAYRLPWP123	ELDRPQVLDFK	156	DDWPQALR	172	PSAWIAEGLLIYL
Mtu-Hp4	101	QAVIVAAGLDCRAYRLDWQ126	EIDVPKVLEFK	161	TDWPTPLT	177	PSAWSVEGLLPYL
Sco-Hp	93	QVVLGAGMDSRAFRMAWPE118	EVDTPAPLEFK	153	EDWPSALA	169	PTAWIGEGLLIYL
AlbVI	99	QVVILAAAGMDARAYRLPWPS124	EIDHMDVLSDK	157	EDWPPQALK	173	ATLWLVEGLLCYL
		Motif I		Motif II		Motif III	Motif IV

FIG. 4

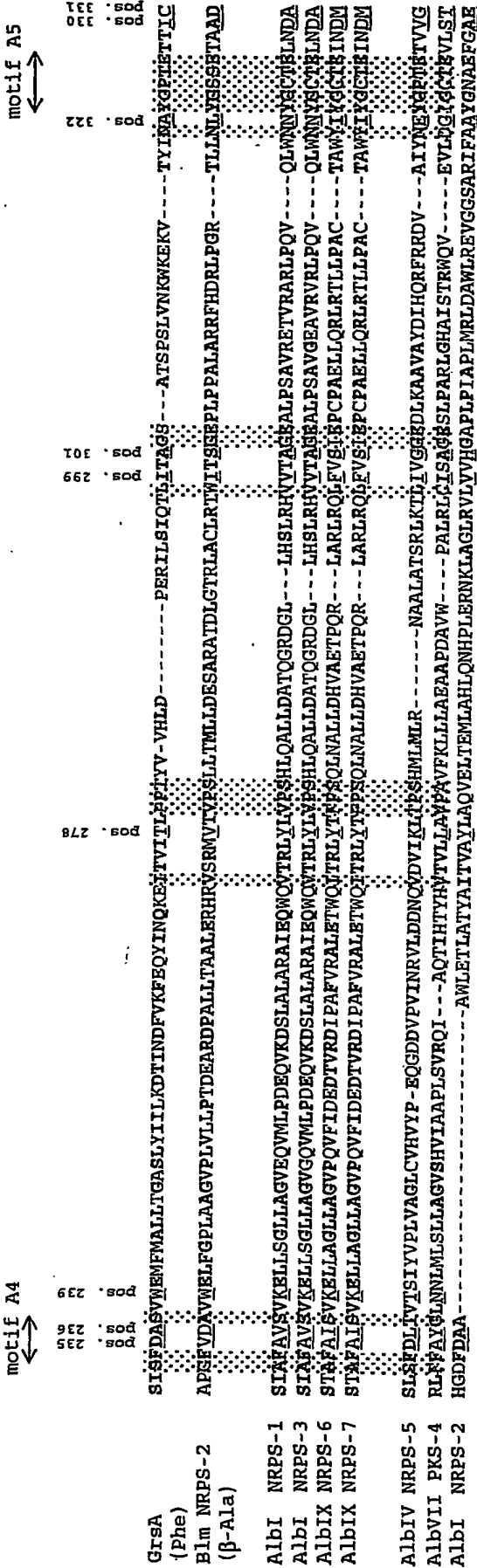


FIG. 5

XALB1 Strand + 29 bp downstream from the TGA stop codon of <i>albXVII</i>									
-40	-35	-30	-25	-20	-15	-10	-5	-1+	+5
.
17085=>	ACCAT	TGTGA	ACGGCCTT	CCCGCTTC	GCATAG	CGATT	TCGAT	CGCGGC	
									4.30
									0
XALB1 Strand + 400 bp downstream from the TAA stop codon of <i>albIV</i>									
-40	-35	-30	-25	-20	-15	-10	-5	-1+	+5
.
55617=>	CATGG	CTGCAG	CGCGAGCT	CGCTCAG	CTACGG	GGTGAG	ACCGA	AGCTGCCC	<= 55667
									4.13
									12
XALB1 Strand - 62 bp, 170 bp and 560 bp downstream from the TAG stop codon of <i>albXVI</i>									
-40	-35	-30	-25	-20	-15	-10	-5	-1+	+5
.
7030=>	GGGGG	CAGTTG	CCCGGAC	CCCGGTTT	CTGTAA	ACGTTG	GCTGT	GTAG	<= 6879
									3.95
									13
6922=>	AACTCT	TAAAG	AGATTG	ATTAAAT	TTCCCT	GCGTTT	TGTAC	GAGAATA	<= 6872
									4.42
6532=>	TACTTA	ATAATA	GATTGC	GGAAGCT	TGCGTT	GCGGA	ATGAT	TTTTTCA	ATAT <= 6482
									4.27
									53
XALB3 Strand+									
-40	-35	-30	-25	-20	-15	-10	-5	-1+	+5
.
- 8065=>	GCAA	AAGAA	AGCGGA	ACGAA	ACGAA	AGGCGC	TACGG	CCCTTT	TTCTTCCA
									4.78
8072=>	AAAG	CGGAA	ACGAA	ACGAA	AGGCGC	TACGG	CCCTTT	TTCTTCC	ATCGTCGA
									3.94
									86

FIG. 6

14456 GTCGTTGATCAGCACCATAGCCTGTTCTCGAACCTCATCTCTAAAGATACCCCGAAGSCTGCTGCGAAGCACGGAAGTTGCTACATCGCAC
CAGCAACTAGTCGTGGTCTATTCCGACAAAGAGCTTCAGTAGGATTCTATGGGGGCCCTCCGACGACGCTTCGTGCCCTCAACGATGTAGCGTG
D N I L V L Y A Q E E F T M RBS
albX
-35 (PalbX: operon 3) -10 (PalbX: operon 3)
14552 AATGCGATTGAGATGGACCAAGCAAGCGACTATACATGACGTCACTTCGAGATGTCAAGAAAATAGCCGCTGAAGAGCACGTAAGAGTGATGT
TTACGCTAAGTCTACCTGGTTTCGTTTCGCTGATATGTAAGTCTACAGTTCTTTTATCGCGCACTTCTCGTGCACTTCTCACTACA
-10 (PalbXVII: operon 4) -35 (PalbXVII: operon 4)
14648 GTTTCGCACCGCTGTACGTCCTCCATCGCCATCGCGGCAAGCTTACACGAAAATTCACCAGGGCATCGCTTCAATACGCGGGTCAAAGCAATATCC
CAAAGCGTGGCGACATGCAGGGTAGCGGTAGCGCCGTTTCGAATGTCCTTTAAGTGGTCCCGTACGCAAGTTATGCGGCCAGTTTCGTTATAGG
14744 TTGGGCTTCAGAGCTATGTTCTGCGTAAAGCGCCAAAGCAGTGGGGAGCAACACCTTGGGTTTCGGTTGAGGTGGGGTAGCAATTTCTGCTTA
AAGCGAACGTCTCGATACAGCAGCGCATTTCCGGGTCCGTACCCCTCGTTGTGGAAACCAAGCCAACTCCACGCCCATCGTTAAAGACGAAT
RBS
14840 ATATCCACGGCGGGGTTTTGTCTTGCCGGGGGTCAACTGTCTCATCGACAGTCTGGGAGGCTATTTTGGCGTGCCTTATCATAAATAATTAC
TATAGGTGCGCGCGCCGCAAAACAGAACGCGCCCGCAGTTGACAGAGTAGCTCGTCAGACCCCTCCGATAAAACGCGACGGAATAGTATTATTAAATG
M R C L I I N N Y
albXVII

FIG. 7A

17332 GAATGAGGCCCCACGCTTACGCGCGAACCAGGACGGGCTGCTGATGATACGGCCGGCGGTGGTCGAGGGCTGCACCAGCAATCTGTTCCCTCG
CTTACTCCGGGGGTGCGAATGCGCGCTTGGTCCCTGCCCGACGACTACCTATGCCGGCCGCCACCAGCTCCCGACGTGGTCGTTAGACAAGGAGC
M R P P R L R A N Q D G L
albVIII (non expressed ?)

17428 TCGAGAACGGCCCATCTGGTGACGCCCGGACCTGGGCGTGGCCGGCTACGCGGGATCATGCGAGGCGGGTGATCGAATATGGCCGGCAGCACGGTC
AGCTCTTGCCGGTAGACCACTGCGGGCTGGACCCGACCGCGCAGTCGCCCTAGTACGCTCCGTCCCAGTACTATACCGGCCGTCGTGCCAG

17524 TCGCCTGCGCGGTAAAGCACGCTCTATCCGGACCAAGTAGTGCCTCAGGAGGTGTTTCTGACTAACGCCGTGTTCCGGCATTTCTGCTGGTGGCA
AGCGGACGCGCCATTTCGTGCAGATAGGCCCTGGTCGATCAGGCACGAGTCTCCACAAAGACTGATTGCGGCACAAGCCGTAAAGACGACCAACGCGT
-35 (PalbXIX: operon 5) -10 (PalbXIX: operon 5)
17620 GCATTGACGCTCACAGCTACCGCATCGATCCTGTTACCCCTGCGTTTGGTCGATGCCCTGTGTCAAGGGCGTATATTTTCCGGAACGGTCACTACATC
CGTAACTGCGAGTGTGATGCGGTAGCTAGGACAAATGGGACGCAACGAGCTACGGGACACAGTCCCGCATATATAAGTGGCTTGCCAGTGATGTAG

RBS
17716 AGGTTTCCACCCATGCCGCGCAAGACCCCTTGAAAGCAAGGATTACTGTGGAGAAAGCTTCGTCAAGGAAGATCGCTCCGGGCAATCGCTGGAGTCG
TCCAAAGGTGGGTACGGCCGGTTCTGGGAACCTTTCGTTCCCTAATGACACCTCTTTTGAAGCAGTCGCTTCTAGCGAGGCCCGGTTAGCGACCTCAGC
M P A K L E S K D Y C G E S F V S
albXIX

FIG. 7B

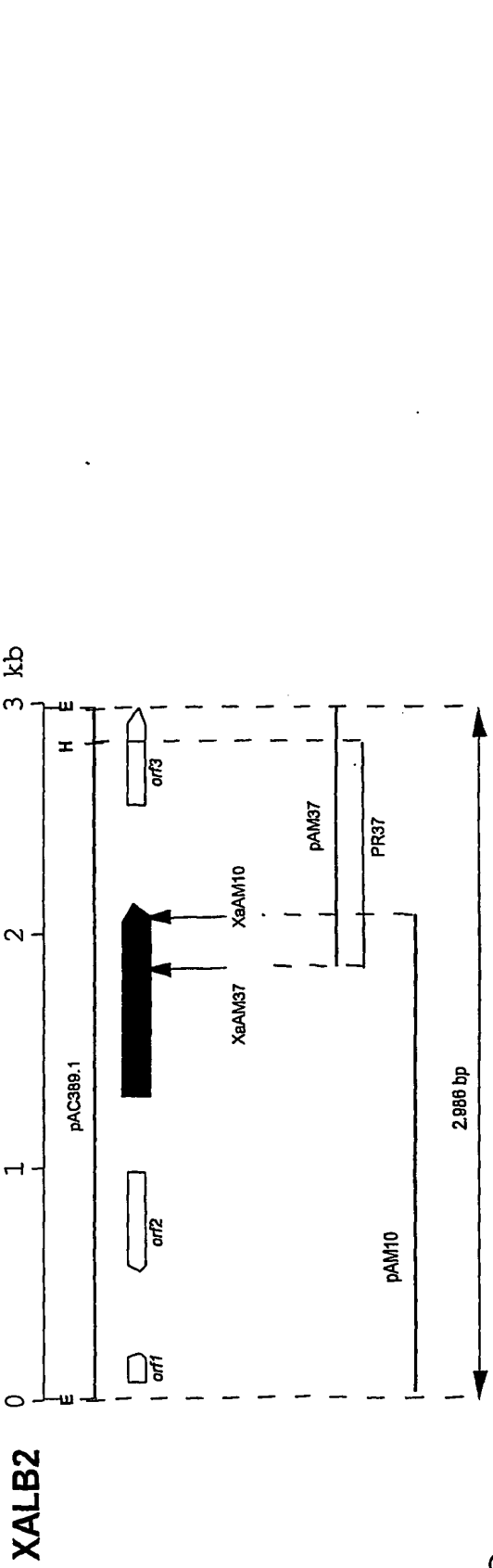
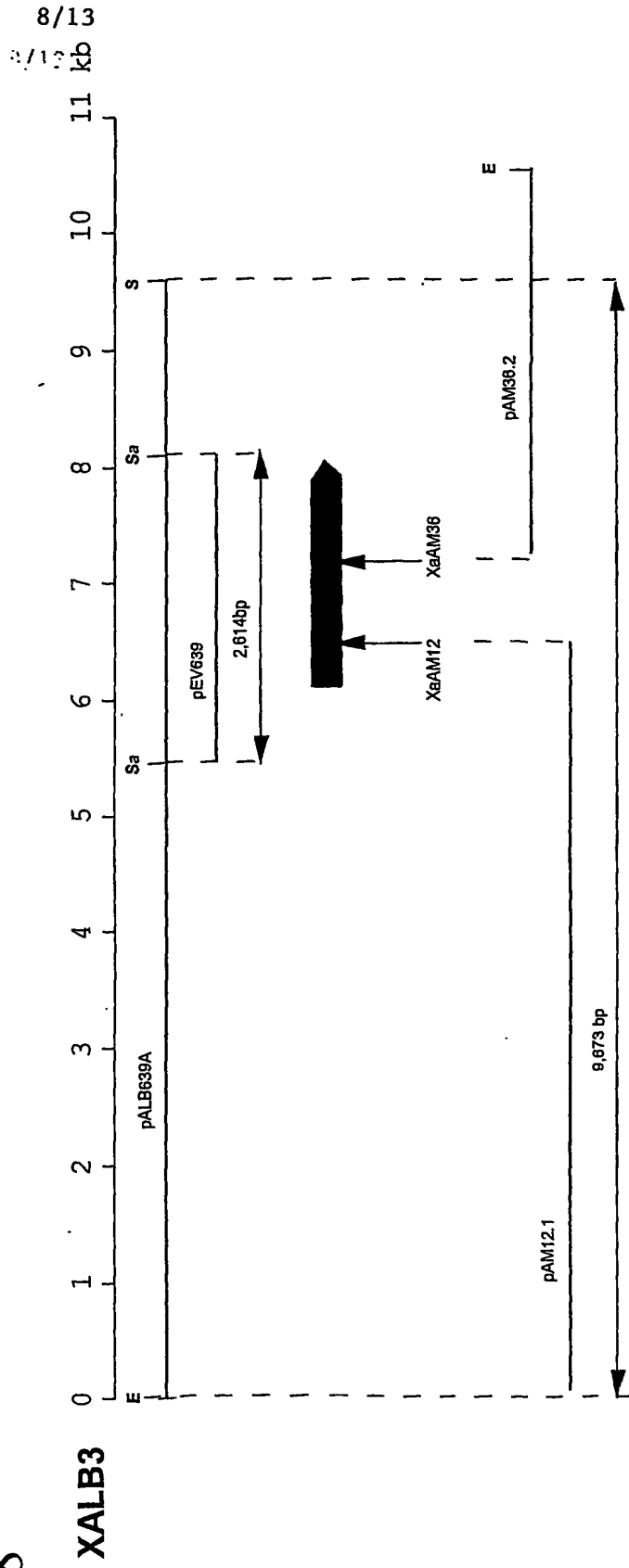


FIG. 8



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8/13 kb

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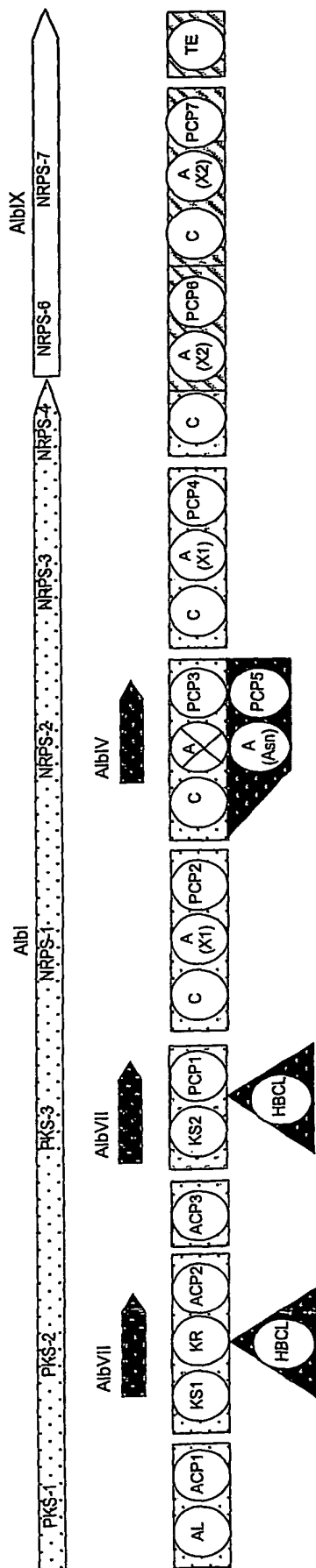


FIG. 9A

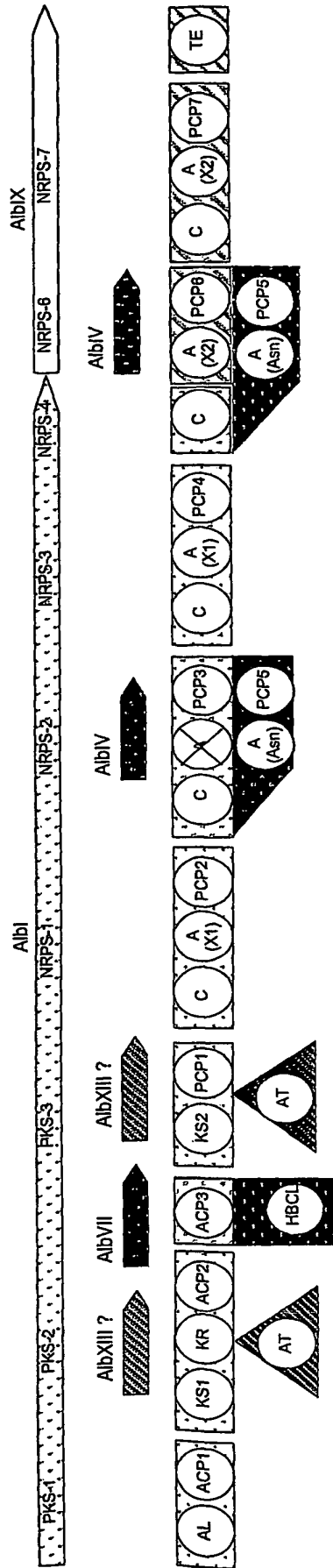


FIG. 9B

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RiFa-1 LGRVDVLQPAC**FA**VMVGLAAVWESVGVRPDAVVGHSQGEI
RiFa-2 LDQMTYTQGA**LF**AVETALFRLEFESWGVPRGLLAGHSIGEL
RiFa-3 LDRVDVVQPAS**FA**MMVGLAAVWTSLGVTDPDAVLGHSQGEI
RiFB-1 LDRVDVVQPAS**FA**VMVGLAAVWESVGVRPDAVVGHSQGEI
RiFE-1 LNQTFTGAG**LF**AVESALFRLAESWGVPRPDVVLGHSIGEI
BlmVIII ADDTRAAQPAL**FA**VEYALARTLMDWGVPRPAAMLGHSLGEV

FIG. 10A

AlbXIII LEDRPRHIRAVIDTLTGHAQFGPAIQAHNVAVIGHSVGGY
FenF TRTMNAQPAILTVSVIAYQVYMQEIGIKPHFLAGHSLGEY
LipA PDSRGRQLLAALDYL TGRSSVRGRIDSGRLGVMGHSMMGGG

FIG. 10B

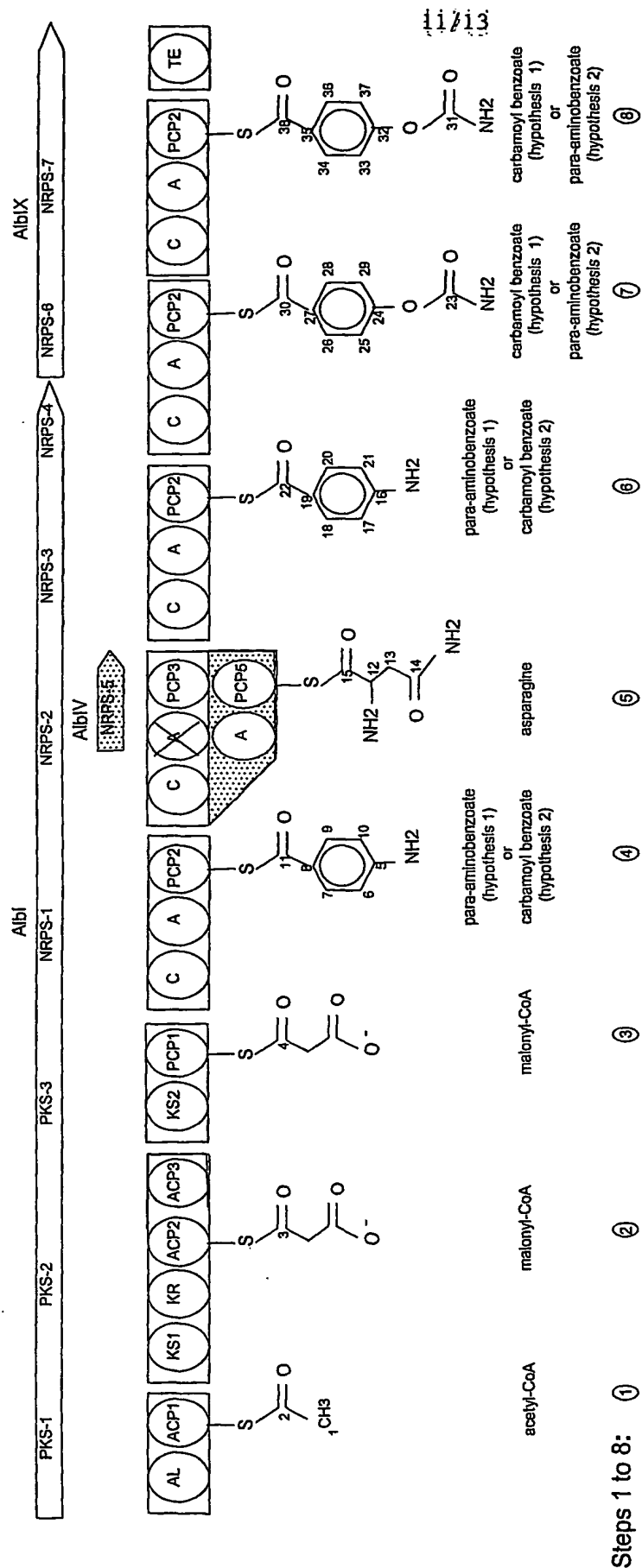


FIG. 11A

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$C_{40}O_{15}N_6H_{35}$
(molecular weight : 839)

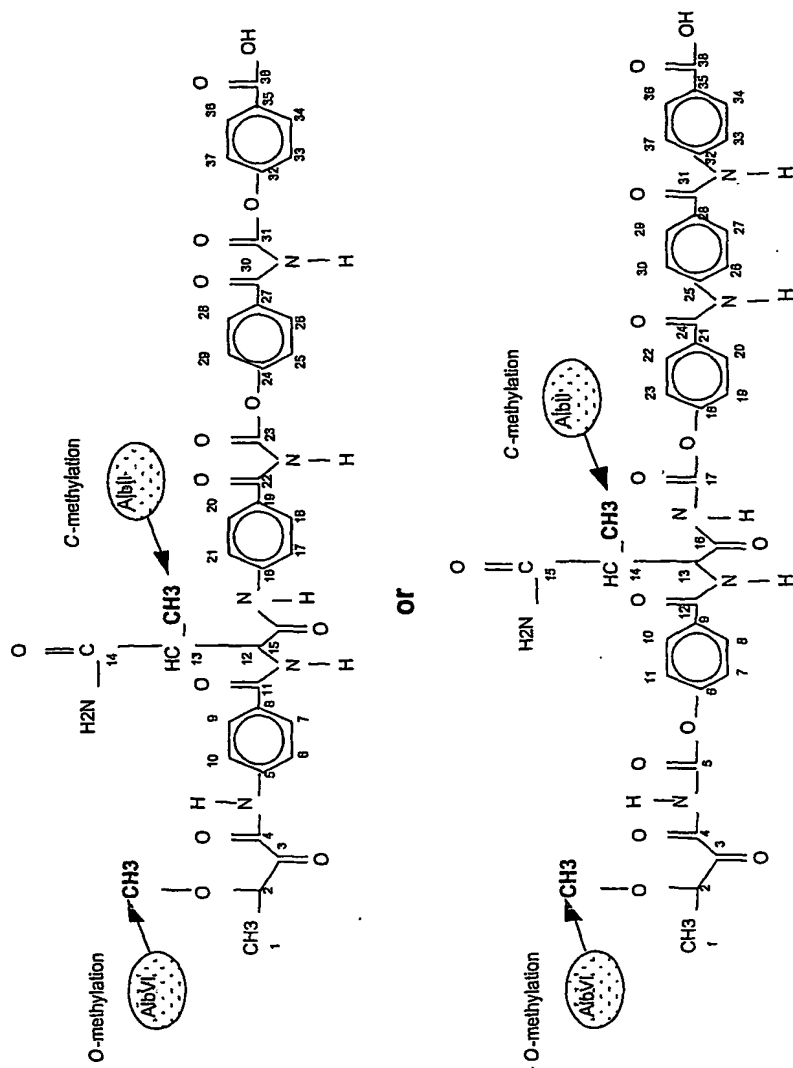


FIG. 11B

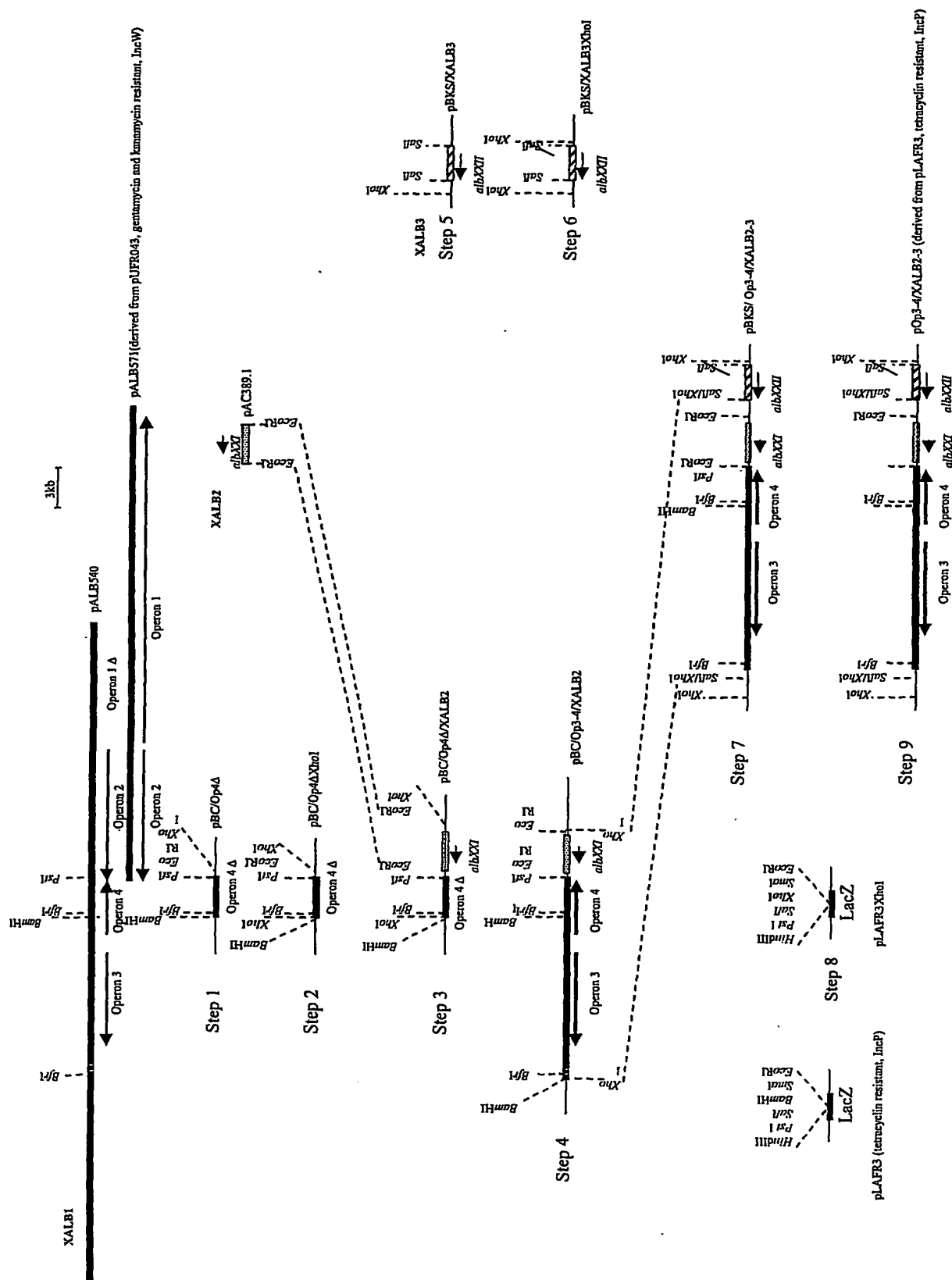


FIG. 12